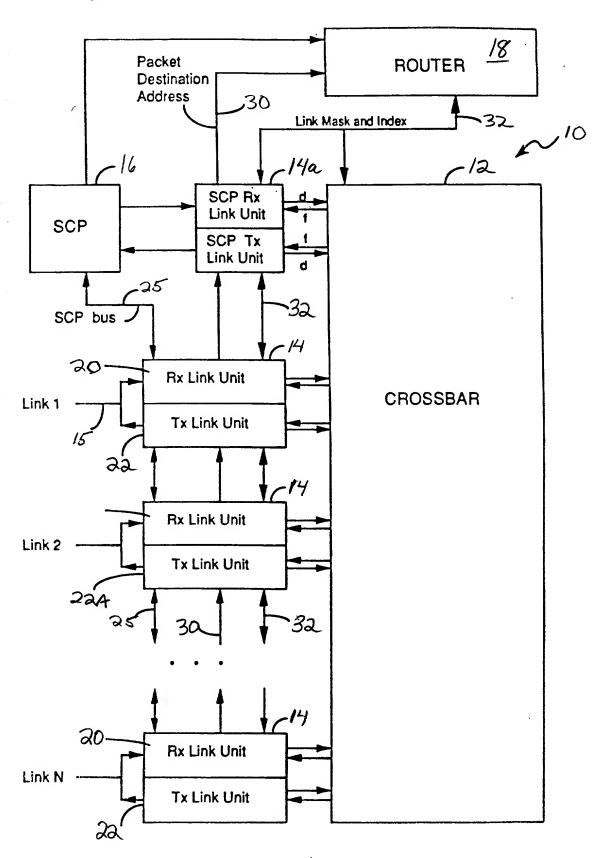Applicants: Abadi et al.
Filed: Herewith
Title: Method for Avoiding Broadcast
Deadlocks in a Mesh-Connected Network
Sheet 1 of 12

ROUTER _18_

Packet
Destination
Address

Link Mask and Index

SCP

SCP Rx
Link Unit

SCP Tx
Link Unit

SCP bus

Rx Link Unit

Link 1

Tx Link Unit

Rx Link Unit

Link 2

Tx Link Unit

Rx Link Unit

Link N

Tx Link Unit

CROSSBAR

FIG. 1

Applicants: Abadi et al.
Filed: Herewith
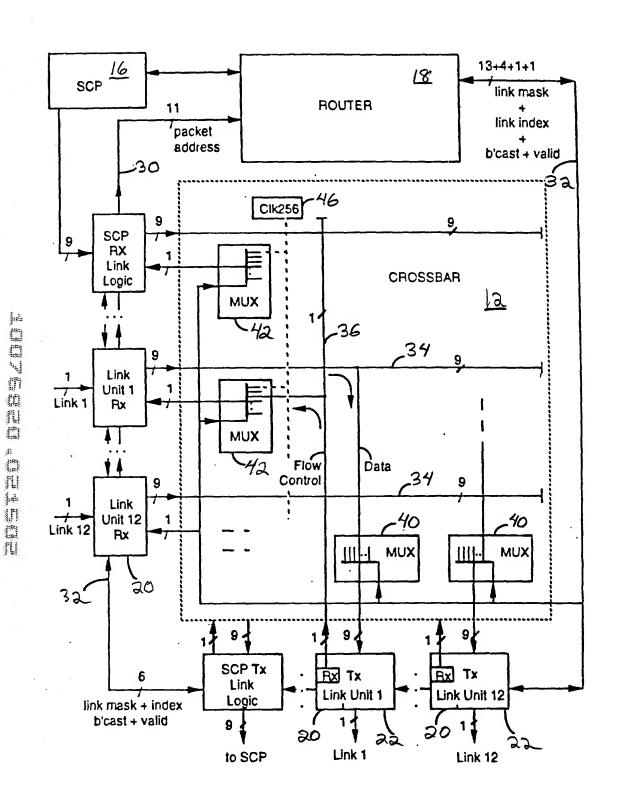Title: Method for Avoiding Broadcast Deadlocks in a Mesh-Connected Network
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FIG. 2

Applicants: Abadi et al.
Filed: Herewith
Title: Method for Avoiding Broadcast
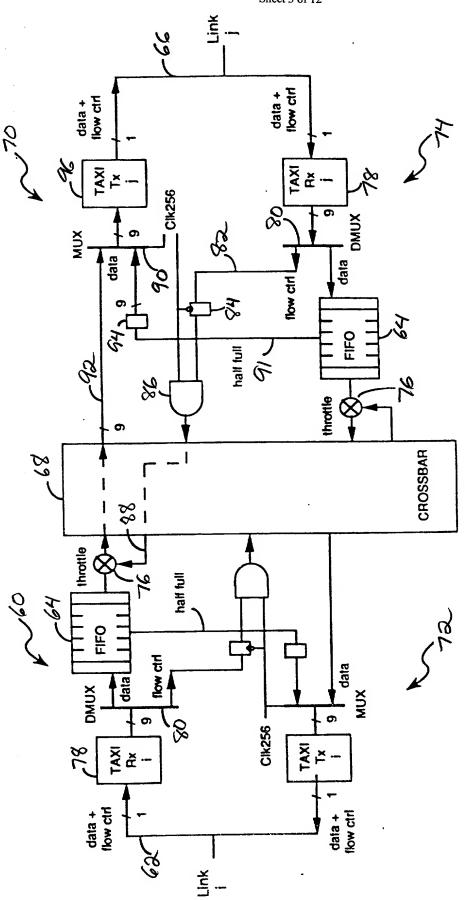Deadlocks in a Mesh-Connected Network
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FIGURE 3

Applicants: Abadi et al.
Filed: Herewith
Title: Method for Avoiding Broadcast
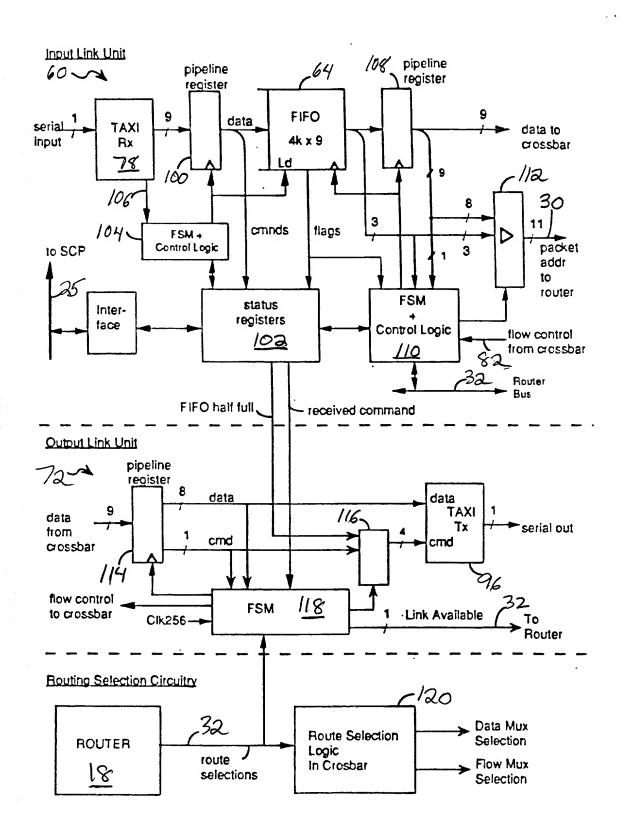Deadlocks in a Mesh-Connected Network
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FIGURE 4

Applicants: Abadi et al.
Filed: Herewith
Title: Method for Avoiding Broadcast
Deadlocks in a Mesh-Connected Network
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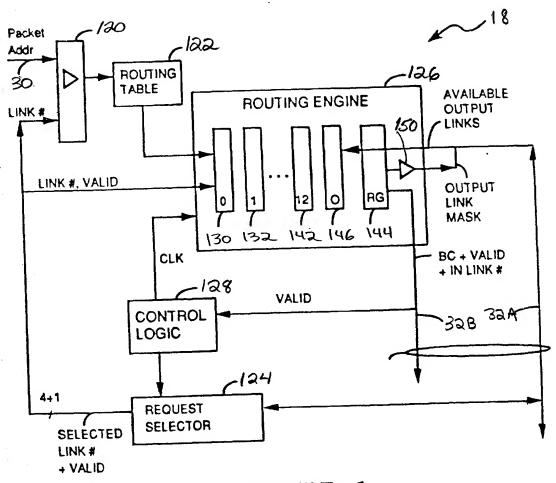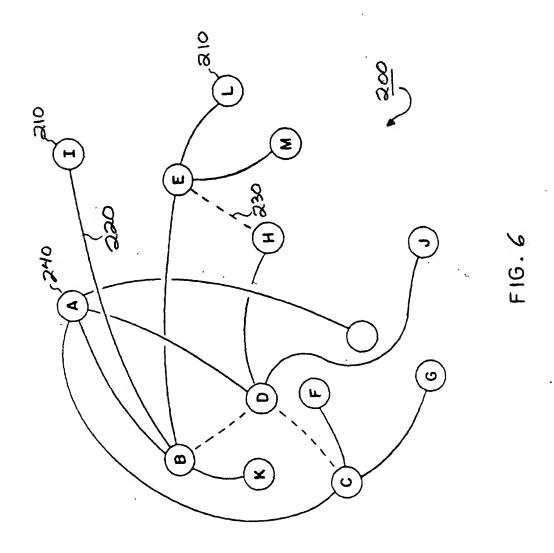**FIGURE 5**

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FIG. 6

Applicants: Abadi et al.
Filed: Herewith
Title: Method for Avoiding Broadcast
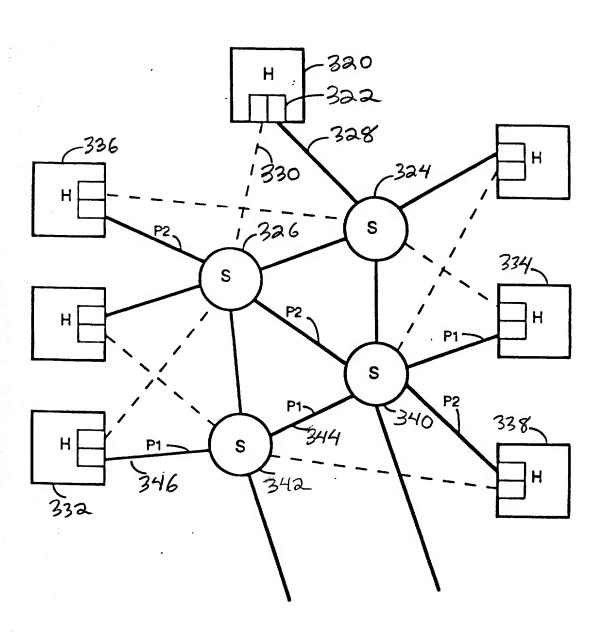Deadlocks in a Mesh-Connected Network
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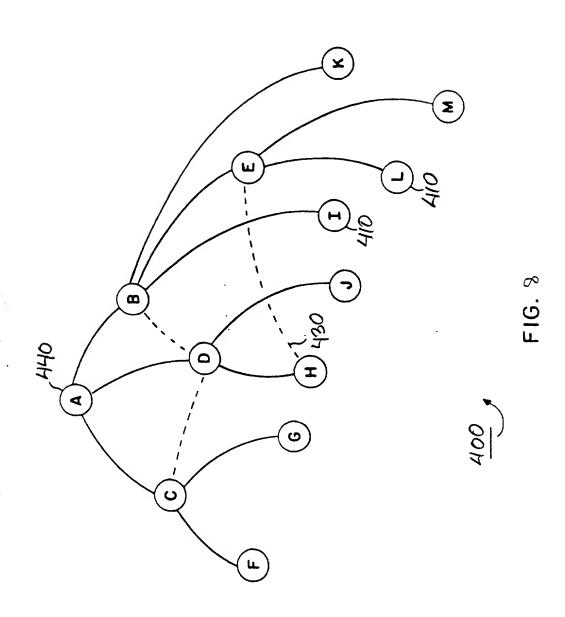**FIGURE 7**

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Deadlocks in a Mesh-Connected Network
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FIG. 8

Applicants: Abadi et al.
Filed: Herewith
Title: Method for Avoiding Broadcast
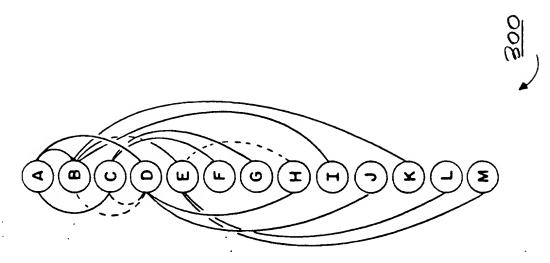Deadlocks in a Mesh-Connected Network
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FIG. 9

Applicants: Abadi et al.
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Deadlocks in a Mesh-Connected Network
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510 SEND PACKET TO ROOT

520 WAIT FOR OLDEST PACKET

530 REPLICATE PACKET
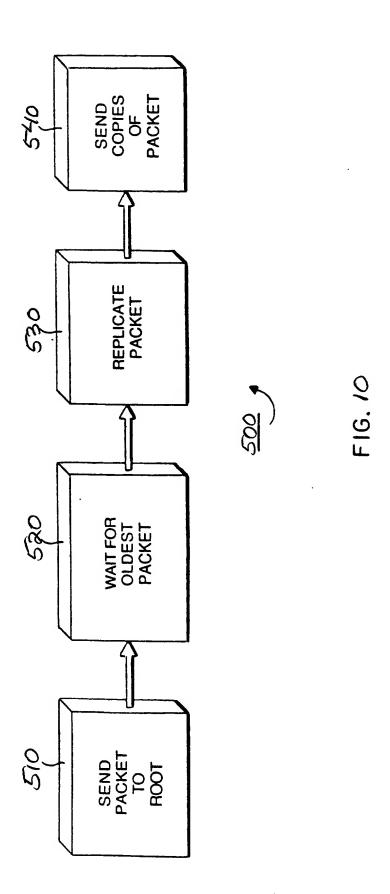
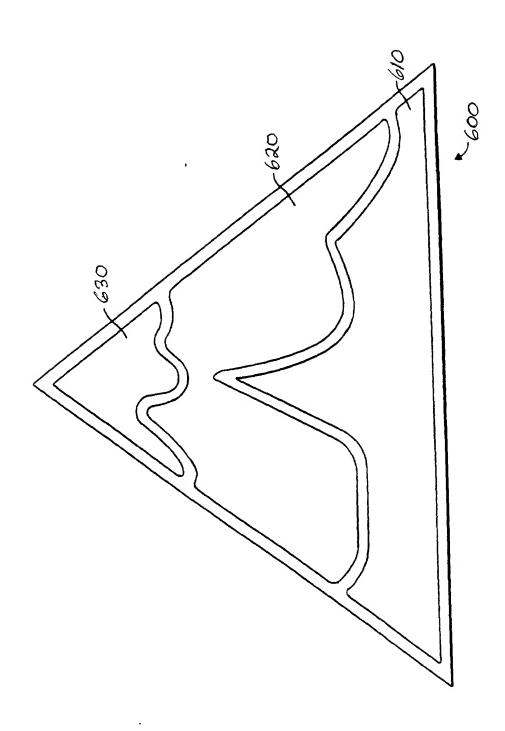540 SEND COPIES OF PACKET

500

FIG. 10

Applicants: Abadi et al.
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Deadlocks in a Mesh-Connected Network
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FIG. 11

Applicants: Abadi et al.
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710 PROPAGATE INITIALIZATION STATE

720 COLLECT NETWORK TOPOLOGY

730 DISTRIBUTE NETWORK TOPOLOGY

740 WAIT UNTIL ALL NODES INITIALIZED

FIG. 12